



Certification Exhibit

FCC ID: R7PEG1R1X8

FCC Rule Part: 47 CFR Part 2.1091

Project Number: AT72162781

Manufacturer: Landis+Gyr Technology, Inc.
Model/HVIN: Gridstream RF, Series 5, I210+c

RF Exposure

General Information:

Applicant: Landis & Gyr Technology, Inc.
Device Category: Sensor
Environment: General Population/Uncontrolled Exposure

Technical Information (900MHz Radio):

Antenna Type: Printed F (PIFA)
Antenna Gains: 0dBi
Maximum Transmitter Conducted Power: 28.86dBm, 769.13mW
Maximum System EIRP: 28.86dBm, 769.13mW
Exposure Conditions: 20 centimeters
Onboard pre-approved module: Model S5-MCMO FCC ID: R7PNG0R1S7

Technical Information (Zigbee):

Antenna Type: Printed-F Onboard Antenna (PIFA)
Antenna Gains: 0dBi
Maximum Transmitter Conducted Power: Zigbee: 19.6dBm, 91.20mW
Maximum System EIRP: Zigbee: 19.6dBm, 91.20mW
Exposure Conditions: 20 centimeters

MPE Calculation

The Power Density (mW/cm²) is calculated as follows:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Table 1: MPE Calculation

Transmit Frequency (MHz)	Radio Power (dBm)	Power Density Limit (mW/cm ²)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm ²)
902.2	28.86	0.60	769.13	0	1.000	20	0.153
2445	19.6	1.00	91.20	0	1.000	20	0.018

Table 2: Simultaneous Transmissions Calculations

Technology	Transmit Frequency (MHz)	Power Density Limit (mW/cm ²)	Power Density (mW/cm ²)	MPE Ratio to Limit (%)	Sum of MPE Ratios (%)	Limit (%)
Zigbee	2445	1.00	0.018	0.02	0.27	100
Sub-GHz	902.2	0.60	0.153	0.25		